
Product Information – SiMAG-Chitosan

Product:	SiMAG-Chitosan		
Article Number:	1409-1 (1 ml); 1409-5 (5 ml)		
Description:	Aqueous dispersion of magnetic silica particles		
Application:	For separation of peptides and enzymes, selective binding of metal ions		
Lot Number:			
Production Date:			
Weight of Volume:	50 mg/ml		
Core:	Maghemite		
Matrix:	Silica, non-porous		
Size (hydrodynamic diameter):	0.5 μm	0.75 μm	1.0 μm
Number of Particles:	$\sim 1.5 \times 10^{13}/\text{g}$	$4.2 \times 10^{12}/\text{g}$	$1.8 \times 10^{12}/\text{g}$
Surface Area:	$\sim 50 \text{ m}^2/\text{g}$		
Density:	$\sim 2.25 \text{ g}/\text{cm}^3$		
Type of Magnetization:	Superparamagnetic		
Functional Group:	Amine group (-NH ₂); linear randomly distributed β -(1-4)-linked D-glucosamine and N-acetyl-D-glucosamine		
Amination Degree:	$\sim 350 \mu\text{mol NH}_2/\text{g}$		
Autoclaved:	Yes		
Storage Buffer / Solution:	ddH ₂ O		
Storage:	At 4 – 8 °C. Do not freeze!		
Expiry Date:	Two years after production date.		
Note:	For complete resuspension vortex thoroughly!		

